

# INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/AU2004/001009**

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> Int. Cl. <sup>7</sup> : E21D 21/00, 20/02 According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Dwpi: E21D 21/00, 20/02 AND (cable+ or strand+ or wire+ or bulb+ or enlarg+ or prot+)				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 6270290 B1 (STANKUS et al) 7 August 2001 The whole document	1-16		
X	WO 1993/015279 A1 (BHP ENGINEERING PTY. LTD.) 5 August 1993 The whole document	1-16		
X	GB 2265394 A (DYCKERHOFF & WIDMANN AKTIENGESELLSCHAFT) 29 September 1993 The whole document	1-16		
X	US 5954455 A (EATON et al) 21 September 1999 The whole document	1-16		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;">           * Special categories of cited documents:            "A" document defining the general state of the art which is not considered to be of particular relevance            "E" earlier application or patent but published on or after the international filing date            "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)            "O" document referring to an oral disclosure, use, exhibition or other means            "P" document published prior to the international filing date but later than the priority date claimed         </td> <td style="width: 50%; vertical-align: top;">           "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention            "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone            "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art            "&amp;" document member of the same patent family         </td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
Date of the actual completion of the international search 16 August 2004		Date of mailing of the international search report 23 AUG 2004		
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  <b>LEOPOLD FILIPOVIC</b> Telephone No : (02) 6283 2105		

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2004/001009

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5344256 A (HEDRICK) 6 September 1994 Figures 1 and 2	1-16
A	US 4790129 A (HUTCHINS) 13 December 1988 Figures 9-13	1-16

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001009

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US 6270290	AU 44784/99	AU 53933/98	AU 53934/98				
	CA 2229367	CA 2229465	CA 2281240				
	US 5919006	US 6074134	ZA 9801209				
	ZA 9906073						
WO 9315279	AU 34448/93	CA 2129220	EP 0628114				
GB 2265394	AU 32870/93	CA 2089038	DE 4203740				
	MX 9300305						
US 5954455	AU 10044/97	CA 2194817	GB 2309060				
	US 5785463	ZA 9700138					
US 5344256	AU 46215/89	CA 2002806	EP 0442935				
	WO 9005811	ZA 8908640					
US 4790129	AU 42734/85	AU 63534/86	CA 1237593				
	EP 0163479	ES 8607446	FI 852030				
	JP 61047889	NO 852029	ZA 8503894				
	ZW 8885						
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							